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### SB24-21/22: Resolution Endorsing The University of Montana Main Campus External Lighting Update Project

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Elizabeth Bowles

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1                                   **The Associated Students of the University of Montana**  
2                   **Resolution Endorsing The University of Montana Main Campus External Lighting**  
3                                   **Upgrade Project**  
4                                   **October 2, 2021**  
5                                   **SB24-21/22**

6                   **Authored by: Noah Durnell, ASUM President; Elizabeth Bowles, ASUM Senator;**  
7

8           Whereas, The Associated Students of the University of Montana (“ASUM”) represents the  
9           interests of students;

10  
11           Whereas, ASUM has often endorsed infrastructural investment projects at the University of  
12           Montana (“UM”) when they were in the best interest of students or reflected ASUM values<sup>1234</sup>;

13  
14           Whereas, In 2018, ASUM passed SB39-17/18 Resolution Regarding Street Lights on Campus,  
15           which provided:

16  
17                   *Therefore, Let It Be Resolved, That ASUM urges UM to add street lights to these dark*  
18                   *areas of 37 campus, to upgrade existing street lights that are no longer providing*  
19                   *sufficient lighting to LED 38 lights, and to work together with the City of Missoula to do*  
20                   *the same to areas surrounding 39 campus*<sup>56</sup>;

21  
22           Whereas, ASUM has formally advocated for campus lighting infrastructural needs in the past;

23  
24           Whereas, Potential campus lighting infrastructural improvements as outlined in the UM Main  
25           Campus External Lighting Upgrade Project (“CELUP”) has been in development for over 10  
26           years<sup>7</sup>;

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<sup>1</sup> Durnell, Noah. “SB55-20/21: Resolution Regarding Lobbying Efforts to Include Major Repairs Project, “Music Building Infrastructure”, in HB5”. Associated Students of the University of Montana, [https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1861&context=asum\\_resolutions](https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1861&context=asum_resolutions). Accessed October 4, 2021.

<sup>2</sup> Durnell, Noah. “SB43-20/21: Resolution Endorsing the Inclusion of Major Repairs funding for “Music Building Infrastructure” in HB05.” Associated Students of the University of Montana, [https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1849&context=asum\\_resolutions](https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1849&context=asum_resolutions). Accessed October 4, 2021.

<sup>3</sup> Durnell, Noah. “SB50-19/20: Resolution Regarding the Renovation and Expansion of the Music Building.” Associated Students of the University of Montana, [https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1786&context=asum\\_resolutions](https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1786&context=asum_resolutions). Accessed October 4, 2021.

<sup>4</sup> Hanley, Ethan. “SB58-20/21: Resolution Providing ASUM’s Endorsement for the University of Montana’s Student Master Life Plan.” Associated Students of the University of Montana, [https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1863&context=asum\\_resolutions](https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1863&context=asum_resolutions). Accessed October 4, 2021.

<sup>5</sup> Fitzpatrick, Connor. “SB39-17/18 Resolution Regarding Street Lights on Campus”. Associated Students of the University of Montana, [https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1664&context=asum\\_resolutions](https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1664&context=asum_resolutions). Accessed October 4, 2021.

<sup>6</sup> Annual Campus Security and Fire Safety Report. 2020, [https://www.umt.edu/clery/acsfsr/acsfsr\\_2020.pdf](https://www.umt.edu/clery/acsfsr/acsfsr_2020.pdf).

<sup>7</sup> Kerns, Brian. *UM Main Campus External Lighting Upgrade Project*. PDF. May 24, 2021. Accessed October 4, 2021.

27  
28 Whereas, ASUM and UM have a duty to assure safety to their student constituents on campus;  
29  
30 Whereas, UM has had at least 20 crimes reported every month of 2021 on the main campus and  
31 frequent bear alerts last year according to the documented crime reports provided by UM Police  
32 Department (“UMPD”) in accordance with the Clery Act<sup>8</sup>;  
33  
34 Whereas, Studies show that sufficient area and street lighting deters crime, injury, and property  
35 damage<sup>9</sup>;  
36  
37 Whereas, Preemptive measures are an important element to promoting safety, and high visibility  
38 can deter potential threats<sup>10</sup>;  
39  
40 Whereas, UM currently has 364 street/area lights on the main campus, of which 91 are owned by  
41 UM and 255 are owned by NorthWest Energy (“NWE”)<sup>11</sup>;  
42  
43 Whereas, The Illumination Engineering Society (“IES”) indicates UM would need 670 lights to  
44 reach the recommended illumination value<sup>12</sup>;  
45  
46 Whereas, CELUP aims to increase the number of lighting fixtures to meet the illumination  
47 values of the IES<sup>13</sup>;  
48  
49 Whereas, CELUP entertains an increase of surveillance cameras on some lighting poles for the  
50 benefit of UMPD when reviewing alerts of criminal behavior<sup>14</sup>;  
51  
52 Whereas, ASUM values sustainability;  
53  
54 Whereas, ASUM has demonstrated past commitment to promoting a reduction of energy use at  
55 UM such as in SB66-19/20 Resolution Endorsing the University of Montana’s Commitment to  
56 Conserve 35% More Energy by 2025<sup>15</sup>;

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<sup>8</sup> “Um Police Department Daily Crime Log.” UM Police Department Daily Crime Log,  
<https://www.umt.edu/clery/crime-log/default.php>.

<sup>9</sup> Science in Service of Cities .(n.d.). *Reducing Crime Through Environmental Design*. Retrieved October 5, 2021,  
[https://urbanlabs.uchicago.edu/attachments/e95d751f7d91d0bcfeb209ddf6adcb4296868c12/store/cca92342e666b1ffb1c15be63b484e9b9687b57249dce44ad55ea92b1ec0/lights\\_04242016.pdf](https://urbanlabs.uchicago.edu/attachments/e95d751f7d91d0bcfeb209ddf6adcb4296868c12/store/cca92342e666b1ffb1c15be63b484e9b9687b57249dce44ad55ea92b1ec0/lights_04242016.pdf).

<sup>10</sup> Sowell, D. (n.d.). *Deterrent To Crime*. StackPath. Retrieved October 5, 2021, <https://www.asumag.com/safety-security/article/20851078/deterrent-to-crime>.

<sup>11</sup> Kerns, Brian. *UM Main Campus External Lighting Upgrade Project*. PDF. May 24, 2021. Accessed October 4, 2021.

<sup>12</sup> Kerns, Brian. *UM Main Campus External Lighting Upgrade Project*. PDF. May 24, 2021. Accessed October 4, 2021.

<sup>13</sup> Kerns, Brian. *UM Main Campus External Lighting Upgrade Project*. PDF. May 24, 2021. Accessed October 4, 2021.

<sup>14</sup> Kerns, Brian. *UM Main Campus External Lighting Upgrade Project*. PDF. May 24, 2021. Accessed October 4, 2021.

<sup>15</sup> Hollar, Melody. “SB66-19/20: Resolution Endorsing the University of Montana’s Commitment to Conserve 35% More Energy by 2025”. Associated Students of the University of Montana,

57  
58 Whereas, Electricity generation in Montana contributes to approximately 27% of the state's  
59 gross anthropogenic greenhouse gas emissions, even when excluding electricity exports<sup>16</sup>;  
60  
61 Whereas, Montana emitted 92.3 million metric tons of carbon dioxide through energy related  
62 activities in 2018<sup>17</sup>;  
63  
64 Whereas, CELUP entertains the implementation of lighting controls where the brightness of  
65 lights change depending on the presence of students in the area<sup>18</sup>;  
66  
67 Whereas, Although not yet quantifiable, there is an assured reduction of energy and cost  
68 associated with responsive lighting controls<sup>19</sup>;  
69  
70 Whereas, Increasing the brightness of lighting when students are present while lowering the  
71 brightness of lighting in the absence of students both promotes campus safety and energy  
72 efficiency;  
73  
74 Whereas, Using Light Emitting Diode ("LED") lights in replace of current campus lighting  
75 projects a reduction of energy usage by at least one-half<sup>20</sup>;  
76  
77 Whereas, Doubling the amount of street lights present on UM main campus to meet illumination  
78 values established by IES and to promote campus safety while replacing the current type of  
79 illumination with LED prevents UM from increasing energy emissions;  
80  
81 Whereas, The current CELUP estimate is \$2,200,000;  
82  
83 Whereas, CELUP has a guaranteed simple payback within 24.4 years;  
84  
85 Whereas, UM's energy is supplied almost entirely by NWE;  
86  
87 Whereas, By taking over existing networks of NWE owned street and campus area lights, UM  
88 would reduce the cost of energy for lighting from \$0.14/kWh to \$0.055/kWh, can make its own  
89 determinations regarding fixture aesthetics, and has the ability to respond more quickly to  
90 lighting concerns;

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[https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1816&context=asum\\_resolutions](https://scholarworks.umt.edu/cgi/viewcontent.cgi?article=1816&context=asum_resolutions). Accessed October 4, 2021.

<sup>16</sup> Bailie, Roe, Lindquist, & Jamison. *Montana Greenhouse Gas Inventory and Reference Case Projections 1990-2021*.PDF. June 2007,

[https://leg.mt.gov/content/committees/interim/2007\\_2008/energy\\_telecom/assigned\\_studies/co2page/draftgreenho\\_usegas.pdf](https://leg.mt.gov/content/committees/interim/2007_2008/energy_telecom/assigned_studies/co2page/draftgreenho_usegas.pdf). Accessed October 4 2021.

<sup>17</sup> Independent Statistics and Analysis: U.S Energy Information Administration. *montana (1)*.XLS. March 2, 2021, <https://www.eia.gov/environment/emissions/state/>. Accessed October 4 2021.

<sup>18</sup> Kerns, Brian. *UM Main Campus External Lighting Upgrade Project*. PDF. May 24, 2021. Accessed October 4, 2021.

<sup>19</sup> Kerns, Brian. *UM Main Campus External Lighting Upgrade Project*. PDF. May 24, 2021. Accessed October 4, 2021.

<sup>20</sup> Energy Saver, "LED Lighting". U.S Department of Energy, <https://www.energy.gov/energysaver/led-lighting>. Accessed October 4, 2021.

91  
92 Whereas, NWE would only assure a one-to-one lighting replacement if UM were to contract  
93 with NWE to improve the institution's street lighting portfolio;  
94

95 Whereas, Total cost savings from diverting ownership from NWE through CELUP, and  
96 implementing greater lighting control mechanisms, is \$85,182;  
97

98 Whereas, The Office of Operations of Finance can multiply cost savings from CELUP by a  
99 variable of 19.05, estimating a total cost contribution of \$1,622,716 towards CELUP;  
100

101 Whereas, Not funding the project in full could have considerable economic setbacks as certain  
102 economies of scale included in the \$2,200,000 estimate would diminish if the project were to be  
103 done in phases, likely seeing a 20% cost increase (\$400,000) as a result<sup>21</sup>;  
104

105 Whereas, ASUM unanimously passed SB16-21/22 Resolution Encouraging the University of  
106 Montana to Build and Maintain Emergency Stations on Campus which provided:  
107

108 *Therefore, Let It Be Further Resolved, That ASUM encourages new implementations of*  
109 *emergency stations on campus to have updated commodities such as video surveillance*  
110 *for evidence in instances where the station is used but there is no person(s) upon UMPD*  
111 *arrival<sup>22</sup>;*  
112

113 Whereas, ASUM's support of such a resolution embodies values of campus safety that are  
114 tangential to CELUP;  
115

116 Therefore, Let It Be Resolved, That ASUM endorses CELUP;  
117

118 Therefore, Let It Be Further Resolved, That ASUM endorses efforts to divest from NWE,  
119 including the efforts indicated in CELUP;  
120

121 Therefore, Let It Be Further Resolved, That the implementation of emergency stations and video  
122 surveillance improvement on campus be considered in, or alongside, current plans to improve  
123 campus lighting infrastructure on campus;  
124

125 Therefore, Let It Be Further Resolved, That ASUM asks the UM Office of Operations and  
126 Finance to consider additional avenues to fully fund CELUP to reinforce the aforementioned  
127 student values;  
128

129 Therefore, Let It Be Further Resolved, That this resolution be sent to Brian Kerns, Building  
130 Operations Project Engineer; Paul Trumbley, Associate Director of Engineering and Utilities;  
131 Paul Lasiter, Vice President of Operations and Finance; Seth Bodnar, UM President; Eva Rocke,  
132 Director of Sustainability.

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<sup>21</sup> Kerns, Brian. *UM Main Campus External Lighting Upgrade Project*. PDF. May 24, 2021. Accessed October 4, 2021.

<sup>22</sup> Bowles, Elizabeth. *SB16-21/22 Resolution Encouraging the University of Montana to Build and Maintain Emergency Stations on Campus*. Accessed October 4 2021.

133

134

135 Passed by Committee: October 10, 2021

136

137 Passed by ASUM Senate: October 13, 2021

138

139

140



141 Elizabeth Bowles,  
142 Chair of Relations and Affairs

143

144 Passed Unanimously.



Canyon S. Lock,  
Chair of the Senate